**Aquaponics Presentation for John**

**Performance Task**

**Learning Trip to Mari’s Gardens**

**STEM RTs and Friends**

**10/06/11**

**8 a.m. - 10:30 a.m.?**

**Background Information:**

Ten STEM (Science, Math, Engineering, and Mathematics) RTs (Resource Teachers) are going on a learning trip to Mari’s Gardens. Fred Lau, the owner of Mari's Gardens, has graciously agreed to give them a tour of his Aquaponics set-up at since they will be able to spread the word to other teachers about this resource in our community.

Three learning goals the STEM RTs have for the trip are to:

1. develop an awareness of aquaponics, sustainability, and “Green” careers;
2. Investigate resources to incorporate into a STEM curriculum (grades K – 12);
3. Develop possible connections to STEM lessons.

Unfortunately, there are no funds for the neighbor island STEM RTs to attend the learning trip. John Constantinou, a Big Island STEM RT sent the e-mail below.

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From: John Constantinou/CIB/HIDOE

To: Jeanine Nakakura/CIB/HIDOE@HIDOE

Date: 10/04/2011 08:37 AM

Subject: Re: Aquaponics at Mari's Gardens

Hi Jeanine,

I'm working on an aquaponics unit and am very interested. Could you take photos if able and send me info? Much appreciated.

What I'd really like to know is how to set up a system and what grows good so how about 1 of the following:

1) how to set up system

2) description of system

3) system requirements

4) best organisms

john

Please create a 5-minute presentation to send John by Oct. 7 so he can view them over the weekend and provide feedback by October 11. Your presentation should have pictures and can be in any format (video, Powerpoint, Prezi, etc. . .). John will be viewing your presentations and using the rubric on the next page to “grade” your presentations. Prizes will be awarded to the top 3 presentations.

**Rubric for “Aquaponics Presentation for John”**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **(Points)** | **Missing Completely (0)** | **Partially Completed (1)** | **Almost Completed (2)** | **Completed (3)** |
| Accurately uses and defines terms (aquaponics, STEM, sustainability, “Green” careers) |  |  |  |  |
| Pictures are informative and relevant |  |  |  |  |
| Describes basic components of an aquaponics system |  |  |  |  |
| Describes inter-relationship of organisms in an aquaponics system |  |  |  |  |
| Describes requirements of aquaponics system |  |  |  |  |
| Identifies ideal organisms to use in an aquaponics system |  |  |  |  |

Name of group \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total points \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/18